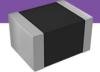
Chip Temp. Sensing NTC Thermistor – SDNT Series

Operating temp.: -40°C ~+125°C



FEATURES

- SMD type suitable for high density mounting
- Series of B constant for various applications
- Excellent solder ability

APPLICATIONS

- Mobile phones, wearable device such as smart watches, TWS headphones, etc.
- Office automation such as printer, facsimile, word processor, etc.
- Battery, CPU temperature protection.

PRODUCT IDENTIFICATION





2	External Dim	ensions (L×W) (mm)
	0402 [01005]	0.4x0.2
	0603 [0201]	0.6×0.3
	1005 [0402]	1.0×0.5
Г	1608 [0603]	1.6×0.8
	2012 [0805]	2.0×1.25

3	Internal Code	
	Х	
	С	

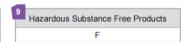
4 Ze	ero-power Resistance
Example	Nominal Value
472	4.7kΩ
103	10kΩ

5	Tolerance of Resistance						
	F	±1%					
	Н	±3%					
	J	±5%					

6	В	Constant (25-50°C)
	Example	Nominal Value
	3380	3380K
	4250	4250K

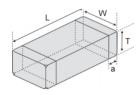
7 Tolerance of B Constant					
F	±1%				
Н	±3%				

В	Packing	
Т	Tape & Reel	



Unit: mm [inch]

SHAPE AND **DIMENSIONS**



Туре	L	W	Т	а
SDNT0402	0.4±0.02	0.2±0.02	0.2±0.02	0.105±0.035
[01005]	[.016±0.0008]	[.008±0.0008]	[.008±0.0008]	[.004±.0010]
SDNT0603	0.6±0.05	0.3±0.05	0.3±0.05	0.15±0.05
[0201]	[.024±.002]	[.012±.002]	[.012±.002]	[.006±.002]
SDNT1005	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1
[0402]	[.039±.006]	[.020±.006]	[.020±.006]	[.010±.004]
SDNT1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
[0603]	[.063±.006]	[.031±.006]	[.031±.006]	[.012±.008]
SDNT2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
[0805]	[.079±.008]	[.049±.008]	[.033±.008]	[.020±.012]

SPECIFICATIONS SDNT0402 TYPE

Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/°C	mW
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT0402C103 ☐ 3380 ◎ TF	10	3380	0.31	<2.000	1.0	100
SDNT0402C104 ☐ 4250 ◎ TF	100	4250	0.10	<3 sec.	1.0	100

SDNT0603 TYPE

Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/°C	mW
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT0603C103 ☐ 3380 ◎ TF	10	3380	0.31			
SDNT0603C223 ☐ 3380 ◎ TF	22	3380	0.21		1.0	100
SDNT0603C473 ☐ 4050 ◎ TF	47	4050	0.14	<3 sec.		
SDNT0603C683 ☐ 4250 ◎ TF	68	4250	0.12			
SDNT0603C104 ☐ 4250 ◎ TF	100	4250	0.10			

SDNT1005 TYPE

Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/°C	mW
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT1005X682 □ 3850 ◎ TF	6.8	3850	0.38			
SDNT1005X103 □ 3380 ◎ TF	10	3380	0.31			
SDNT1005X103 □ 3435 ◎ TF	10	3435	0.31			
SDNT1005X103 □ 3950 ◎ TF	10	3950	0.33			
SDNT1005X103 ☐ 4050 ◎ TF	10	4050	0.33			
SDNT1005X153 ☐ 3450 ◎ TF	15	3450	0.25			
SDNT1005X223 ☐ 3950 ◎ TF	22	3950	0.23			
SDNT1005X303 □ 3950 ◎ TF	30	3950	0.15			
SDNT1005X303 ☐ 4050 ◎ TF	30	4050	0.15			
SDNT1005X333 □ 3950 ◎ TF	33	3950	0.15			
SDNT1005X333 □ 4050 ◎ TF	33	4050	0.15		4.0	400
SDNT1005X473 ☐ 4050 ◎ TF	47	4050	0.12	<3 sec.	1.0	100
SDNT1005X473 ☐ 4100 ◎ TF	47	4100	0.12			
SDNT1005X503 ☐ 4050 ◎ TF	50	4050	0.12			
SDNT1005X503 ☐ 4100 ◎ TF	50	4100	0.12			
SDNT1005X683 ☐ 4150 ◎ TF	68	4150	0.11			
SDNT1005X104 ☐ 3950 ◎ TF	100	3950	0.10			
SDNT1005X104 ☐ 4150 ◎ TF	100	4150	0.10			
SDNT1005X104 ☐ 4250 ◎ TF	100	4250	0.10			
SDNT1005X154 ☐ 4250 ◎ TF	150	4250	0.08			
SDNT1005X224 ☐ 4250 ◎ TF	220	4250	0.06			
SDNT1005X224 ☐ 4350 ◎ TF	220	4350	0.06			

SDNT1608 TYPE

Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	К	mA	sec	mW/°C	mW
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT1608X222 □ 3450 ◎ TF	2.2	3450	0.67	∠ F 000	1.0	100
SDNT1608X472 ☐ 3850 ◎ TF	4.7	3850	0.46	<5 sec.	1.0	100



SPECIFICATIONS SDNT1608 TYPE

Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/°C	mW
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT1608X502 ☐ 3850 ◎ TF	5	3850	0.44	<5 sec.	1.0	100
SDNT1608X103 ☐ 3380 ◎ TF	10	3380	0.31			
SDNT1608X103 ☐ 3435 ◎ TF	10	3435	0.31			
SDNT1608X103 ☐ 3450 ◎ TF	10	3450	0.31			
SDNT1608X103 ☐ 3950 ◎ TF	10	3950	0.33			
SDNT1608X103 ☐ 4000 ◎ TF	10	4000	0.33			
SDNT1608X153 ☐ 3950 ◎ TF	15	3950	0.25			
SDNT1608X223 ☐ 3950 ◎ TF	22	3950	0.21			
SDNT1608X223 ☐ 4050 ◎ TF	22	4050	0.21			
SDNT1608X333 □ 4050 ◎ TF	33	4050	0.17			
SDNT1608X473 ☐ 4050 ◎ TF	47	4050	0.14			
SDNT1608X473 ☐ 4150 ◎ TF	47	4150	0.14			
SDNT1608X503 ☐ 4050 ◎ TF	50	4050	0.13			
SDNT1608X503 ☐ 4150 ◎ TF	50	4150	0.13			
SDNT1608X683 ☐ 4150 ◎ TF	68	4150	0.12			
SDNT1608X104 ☐ 3950 ◎ TF	100	3950	0.1			
SDNT1608X104 ☐ 4250 ◎ TF	100	4250	0.1			
SDNT1608X124 ☐ 4250 ◎ TF	120	4250	0.1			
SDNT1608X154 ☐ 4300 ◎ TF	150	4300	0.08			
SDNT1608X224 ☐ 4300 ◎ TF	220	4300	0.06			

SDNT2012 TYPE

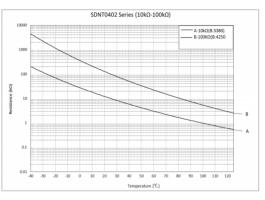
Part Number	Resistance at 25°C	B Constant (25-50°C)	Max. Permissive OperatingCurrent (25°C)	Thermal Time Constant	Dissipation Factor	Rated Electric Power
Units	kΩ	K	mA	sec	mW/°C	mVV
Symbol	R25	B25/50	lmax.	t	С	Р
SDNT2012X472 ☐ 3950 ◎ TF	4.7	3950	0.65	<5 sec.	2.0	200
SDNT2012X502 ☐ 3950 ◎ TF	5	3950	0.60			
SDNT2012X103 ☐ 3450 ◎ TF	10	3450	0.40			
SDNT2012X103 ☐ 3950 ◎ TF	10	3950	0.44			
SDNT2012X153 ☐ 3950 ◎ TF	15	3950	0.33			
SDNT2012X223 ☐ 4050 ◎ TF	22	4050	0.31			
SDNT2012X303 ☐ 4050 ◎ TF	30	4050	0.25			
SDNT2012X333 ☐ 4050 ◎ TF	33	4050	0.24			
SDNT2012X473 ☐ 4050 ◎ TF	47	4050	0.20			
SDNT2012X473 ☐ 4150 ◎ TF	47	4150	0.20			
SDNT2012X503 ☐ 4050 ◎ TF	50	4050	0.18			
SDNT2012X503 ☐ 4150 ◎ TF	50	4150	0.18			
SDNT2012X104 ☐ 3950 ◎ TF	100	3950	0.14			
SDNT2012X104 ☐ 4250 ◎ TF	100	4250	0.14			
SDNT2012X154 ☐ 4350 ◎ TF	150	4350	0.11			
SDNT2012X224 ☐ 4350 ◎ TF	220	4350	0.08			

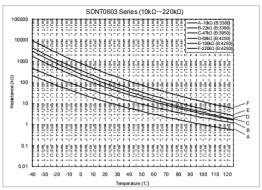
[%] \square : Please specify the resistance tolerance code (F=±1%, H=±3%, J=±5%).

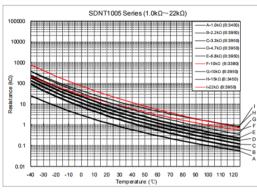
And products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

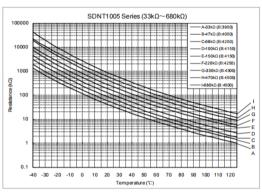
[%] \bigcirc : Please specify the B value tolerance code (F=±1%, H=±3%).

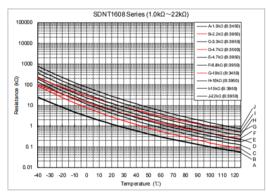
TYPICAL ELECTRICAL CHARACTERI-STICS

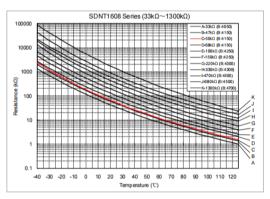


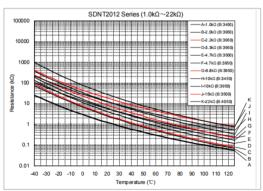


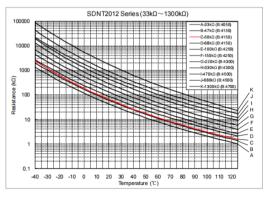












单击下面可查看定价,库存,交付和生命周期等信息

>>Sunlord(顺络)